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ABSTRACT

A helical screw rotor compressor is provided which includes a rotor housing that includes a barrel wall between two parallel end walls, an inlet port at a first end and an outlet port at a second end. The compressor has an internal shape corresponding to two parallel and mutually intersecting cylinders. The compressor includes two rotors which each include a shaft and a rotor body surrounding the shaft. The rotor bodies have parallel end surfaces adjacent to the end walls of the rotor housing, and each include helical lobes that have a crown, a first or leading flank surface on a first side of the crown and a second or trailing flank surface on a second side of the crown. The second or trailing flank surfaces of the lobes have a beveled or chamfered region adjacent to the end surface of the rotor body near the outlet port.